

IN THE CLAIMS

1. (Currently Amended) A data reproducing method for reading data having been written in a data recording area of a recording medium, the data being interleaved with a data linking block appended at each fixed length packet as a recording unit, and linked at a linking position in the data linking block, the method comprising steps of:

reading the data from the data recording area of the recording medium and de-interleaving the data thus read;

detecting the position of the data linking block by checking that whether or not the data is ~~a one having~~ has been written in units of the fixed length packet by reading identification information and information of the length of the fixed length packet; and

generating a reading data by removing the data linking block.

2. (Original) The method as set forth in claim 1, wherein it is checked based on data written in the recording medium that the data has been written in units of the fixed length packet.

3. (Original) The method as set forth in claim 1, wherein the data linking blocks include at least one run-out block, one link block and at least one run-in block.

4. (Currently Amended) A data player apparatus for reading data having been written in a data recording area of a recording medium, the data being interleaved with a data linking block appended at each fixed length packet as a recording unit, and linked at a linking position in the data linking block, the apparatus comprising:

means for reading the data from the data recording area of the recording medium;  
means for de-interleaving the data read from the data recording area of the recording medium; and  
means removing the data linking block from the de-interleaved data to generate a reading data;

wherein the reading signal generating means ~~detecting~~ detects the position of the data linking block by checking ~~that~~ whether or not the data has been written in units of the fixed length packet by reading identification information and information of the length of the fixed length packet.

5. (Original) The apparatus as set forth in claim 4, wherein it is checked based on data written in the recording medium that the data has been written in units of the fixed length packet.

6. (Original) The apparatus as set forth in claim 4, wherein the data linking blocks include at least one run-out block, one link block and at least one run-in block.

7. (Original) The apparatus as set forth in claim 4, wherein the data linking blocks include one run-out block, one link block and one run-in block.

8. (Currently Amended) A data recording method for writing data to a data recording area of a recording medium by appending data linking blocks at each unit of data to continuously be written to the data recording area, interleaving the data to which the data linking blocks have

been appended and linking the interleaved data at a linking position in the data linking block, the method comprising steps of:

storing one, after the linking position, of the data in the data linking block which will be placed across the linking position due to the interleaving; and  
linking the interleaved data by appending the stored data to subsequent data;  
wherein linking positions of the first data linking blocks are stored in a buffer memory.

9. (Original) The method as set forth in claim 8, wherein the data linking blocks include at least one run-out block, one link block and at least one run-in block.

10. (Currently Amended) A data recorder apparatus for writing data to a data recording area of a recording medium, the apparatus comprising:

means for appending data linking blocks at each unit of data to continuously be written to the data recording area;

means for interleaving the data to which the data linking blocks have been appended; and  
means for writing the data to the data recording area of the recording medium while linking the interleaved data at a linking position in the data linking block;

wherein the data writing means storing one, after the linking position, of the data in the data linking block which will be placed across the linking position due to the interleaving, and linking the interleaved data by appending the stored data to subsequent data; and

wherein linking positions of the first data linking blocks are stored in a buffer memory.

11. (Original) The apparatus as set forth in claim 10, wherein the data linking blocks include at least one run-out block, one link block and at least one run-in block.

12. (Original) The apparatus as set forth in claim 10, wherein the data linking blocks include one run-out block, one link block and one run-in block.

13. (Currently Amended) A data recording method for writing data to a data recording area of a recording medium by appending data linking blocks at each unit of data to continuously be written to the data recording area, interleaving the data to which the data linking blocks have been appended and linking the interleaved data at a linking position in the data linking block, the method comprising steps of:

reproducing one, after the linking position, of the data in the data linking block which will be placed across the linking position due to the interleaving; and

linking the interleaved data by appending the reproduced data to subsequent data;

wherein linking positions of the first data linking blocks are stored in a buffer memory.

14. (Original) The method as set forth in claim 13, wherein the data linking blocks include at least one run-out block, one link block and at least one run-in block.

15. (Currently Amended) A data recorder apparatus for writing data to a data recording area of a recording medium, the apparatus comprising:

means for appending data linking blocks at each unit of data to continuously be written to the data recording area;

means for interleaving the data to which the data linking blocks have been appended; and means for writing the data to the data recording area of the recording medium while linking the interleaved data at a linking position in the data linking block;

the data writing means reproducing one, after the linking position, of the data in the data linking block which will be placed across the linking position due to the interleaving, and linking the interleaved data by appending the reproduced data to subsequent data;

wherein linking positions of the first data linking blocks are stored in a buffer memory.

16. (Original) The apparatus as set forth in claim 15, wherein the data linking blocks include at least one run-out block, one link block and at least one run-in block.

17. (Original) The apparatus as set forth in claim 15, wherein the data linking blocks include one run-out block, one link block and one run-in block.